



Career and Tech EDventors Scholarship Competition

Students across Tennessee are participating in rigorous programs of study through career and technical education (CTE). Many of these students participate in classroom projects designed to grow critical thinking and problem-solving skills. In order to showcase our students' skills within these projects, the division of college, career and technical education will host three project-based, *Shark Tank*-style scholarship competitions for students in grades 9-12 the week of April 24–28, 2017.

Scholarships

Projects will be judged for first, second, and third place. Teams who place first will receive a \$500 scholarship for each member on the team (up to four members).

Guidelines

- 1) Schools may choose to participate in just one competition or all three.
- 2) Only one team is allowed per school in each project.
- 3) Teams may consist of up to four members for each project for students in grades 9-12.
- 4) The submission must be an original design. No copyright laws should be violated, and participants must not have claimed the work of another person.
- 5) Teams agree to sign releases for the Tennessee Department of Education to showcase the products and images on its own and partner websites for marketing materials.
- 6) Teachers will submit an [intent to compete](#) by 5 p.m. CST on Feb. 24, 2017.
- 7) Competitions will be held in Nashville the week of April 24–28, 2017. Specific dates and locations will be announced after the number of competitors is determined based on the intent to compete form.
- 8) Teams must be present to compete.
- 9) Projects will be presented, and winners will be determined on the same day.
- 10) The local school system is responsible for travel costs incurred.
- 11) An employee of the school system will need to travel with the students.

Fill out the [intent to compete](#) prior to Feb. 24, 2017. We look forward to seeing outstanding student projects in April.

Projects

Career and Tech EDventors has three projects from which students can choose:

- 1) Health Care Device
- 2) Green Building Technology
- 3) Advanced Manufacturing video



Project #1--Health Care Device

Task: Create a health care device to improve the quality of life for a person with a health disorder. Create a presentation to sell the device to industry professionals. The innovation must be the students' idea and design and include a functioning prototype.

1. Teams will present their product to a panel of judges. The presentation should include a description of the design conception and implementation. Benefits, value, costs, training requirements, and career implications may be included as well. The goal will be to deliver an engaging presentation that teaches the judges about their health care device and its impact to improve the quality of life for a person with a health disorder.
2. During the presentation, the team will show their assembled innovation and explain its uses.
3. Each team will be judged on their overall innovation and on their ability to communicate information to the judges about the need for their innovation.
4. Any sources used for data or information should be added to a Works Cited slide in the presentation.
5. The presentation time will be from 10-15 minutes. At the end of the presentation, judges will have 10 minutes to ask questions.
6. Electricity will not be provided for the device. Teams must use battery power.
7. A projector and screen will be provided for the presentation. Teams must bring their own laptop.
8. Competitors are responsible for the safety and proper functioning of all equipment they bring to this event. Teams may not use flames, body fluids, living organisms, sharp objects, or any item that may risk bodily harm. Invasive procedures and skin puncturing of any kind are prohibited.

The following career clusters can collaborate on this project: Business Management & Administration, Health Science, Information Technology, Marketing, and STEM.

The panel of judges will consist of members from area hospitals and health care companies.

Project #2-- Green Technology

Task: Create a product or mechanism for use in a vehicle or structure (such as a building) that reduces the carbon footprint by repurposing or using recyclable materials while maintaining a safe and healthy automotive environment. Research the quality of the product and sustainability. Then, create a presentation to sell the product or mechanism to industry professionals. The product or mechanism needs to be a functioning product.

1. Teams will present their product to a panel of judges. The presentation should include a description of the design conception and implementation. Benefits, value, costs, training requirements, and career implications may be included as well. The goal will be to deliver an engaging presentation that teaches the judges about the implications of the new technology.
2. During the presentation, the team will show their product and explain its uses.
3. Each team will be judged on their overall innovation and on their ability to communicate information to the judges about the need for their innovation.



4. Any sources used for data or information should be added to a Works Cited slide in the presentation.
5. The presentation time will be from 10-15 minutes. At the end of the prepared oral presentation, judges will have 10 minutes to ask questions.
6. Electricity will not be provided for the device. Teams must use battery power.
7. A projector and screen will be provided for the presentation. Teams must bring their own laptop.
8. Competitors are responsible for the safety and proper functioning of all equipment they bring to this event. Teams may not use flames, body fluids, living organisms, sharp objects, or any item that may risk bodily harm.

The following career clusters can collaborate on this project: Agriculture, Food, & Natural Resources, Architecture & Construction, Arts, A/V Technology, & Communications, Business Management & Administration, Health Science, Information Technology, Marketing, STEM, and Transportation, Distribution, & Logistics,.

The panel of judges will consist of members from advanced manufacturing, automotive, construction, and energy companies

Project #3—Advanced Manufacturing Video

Manufacturing today is a high-tech endeavor that requires innovative ideas and the flexibility to use those innovations in both the product and the process. Combine the power of technology with our skilled and stable workforce, and you'll have a competitive advantage in a diversified market. That's why Tennessee is a high-tech hotbed, with some of the most sophisticated manufacturing facilities in the world located right here.

– Tennessee Department of Economic and Community Development

See more at: <http://www.tnecd.com/industries/advanced-manufacturing/#sthash.N4P9agHq.dpuf>

Task: Generate excitement about Advanced Manufacturing careers by creating a three-minute video promoting Advanced Manufacturing in Tennessee for the purpose of recruiting Tennessee students to explore available careers.

The following guidelines must be followed:

1. The video should be between two to three (2- 3) minutes.
2. The video should be submitted as an MP4.
3. The video may contain animation.
4. The video must be designed, filmed, and edited by students. (No contract work.)
5. No copyrighted materials may appear in the video (music, images, etc.).
6. At the beginning of the presentation, students will give a one (1) minute introduction of the video including why this topic is important for students in Tennessee. At the end of the video, judges will be allowed five minutes to ask questions.
7. A projector and screen will be provided for the presentation. Teams must bring their own laptop. Immediately following the presentation, students will be asked to transfer their video to an external hard drive provided by the Tennessee department of education.

8. Teams understand that their creation may be used in future marketing materials presented by the department. Full credit will be given to the students in every instance of the video's future use.

The following career clusters can collaborate on this project: Advanced Manufacturing, Arts, A/V Technology, & Communications, Business Management & Administration, and Marketing.

The panel of judges will consist of members from: advanced manufacturing, community colleges, and Tennessee Colleges of Applied Technology

If you have questions, please contact Candi.Norwood@tn.gov .